

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 95-057

UPDATED WASTE DISCHARGE REQUIREMENTS FOR:

CITY OF SAN JOSE
SINGLETON ROAD CLASS III SOLID WASTE DISPOSAL SITE
SAN JOSE, SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board), finds that:

1. The City of San Jose is the site's legal owner hereinafter referred to as the discharger. The site is located at 885 Singleton Road in San Jose as shown in Figure 1, which is incorporated herein as a part of this Order. No waste has been disposed of at the site since 1978, and the site was closed pursuant to Board Order 81-08.

PURPOSE OF UPDATING ORDER:

2. The primary objectives of this Order are to update the site's groundwater monitoring program, and assure compliance with the storm water discharge program.

SITE DESCRIPTION:

3. The landfill is bounded on the north by Capitol Expressway, on the east by Coyote Creek, and on the south and west by houses along Locke Drive, Singleton Road, Brodie Drive and Granbrook Way. The landfill has a five foot soil cover and is vegetated by grass. The landfill is divided into two sections by Singleton Road, which runs approximately northeast/southwest across the site. This road is closed to traffic and is used as a pedestrian route to traverse the landfill.
4. The landfill occupies approximately 80 acres adjacent to Coyote Creek. Part of the landfill was placed on the creek floodplain, with wastes consisting of concrete rubble, plant trimmings and soil being disposed of at the site.. Twenty to forty- foot deep pits were dug in the higher portions of the landfill to

allow areas for filling. Land use within one mile of the landfill is predominantly residential, but also includes offices, shopping centers, light industry and open space. No hazardous wastes were disposed of at the landfill. The discharger is planning on utilizing the landfill for a public sports and recreation site.

SITE HISTORY

5. On January 28, 1971, the Board adopted Order Nos. 71-06 and 71-07 prescribing Waste Discharge Requirements (WDR) for the City of San Jose Dump and the Singleton Disposal Site, respectively. On December 19, 1978 the Board adopted Order No. 78-110, revising WDR's for both disposal sites, consolidated under one owner, the discharger. On February 18, 1981, WDR's were again revised by Order No. 81-8, closure requirements for the site. On June 15, 1988 the Board adopted Order No. 88-098, updated waste discharge requirements which requested proof of an irrevocable closure fund.
6. The discharger submitted a Solid Waste Assessment Test Report to the Board which was approved on January 04, 1991.

GEOLOGIC SETTING OF THE SITE

7. The Singleton Road Landfill is located on the gently sloping floor of the Santa Clara Valley near the northwestern termination of a low range of hills bordering the valley on the northeast. The floor of the valley is an alluvial plain comprising fluvial and coalescing alluvial fan deposits, which in the vicinity of the site, vary from less than 300 to over 400 feet in thickness. Low bedrock ridges rise from the valley floor about 6,000 feet south and west of the site, known as the Edenvale gap. Surficial soils at and near the landfill consist of artificial cover and fill material and Quaternary alluvium. The Quaternary age deposits are largely Holocene in age with possibly some Pleistocene age deposits at depth overlying bedrock.
8. The groundwater aquifers beneath the Singleton Road Landfill are considered to be part of the San Jose Plain groundwater basin. Underflow near and under the landfill occurs through the Edenvale Gap from the Santa Teresa groundwater basin. Recharge to the San Jose Plain basin also occurs by groundwater infiltration from Coyote Creek. Groundwater has consistently been deeper than 7 feet below the bottom of the landfill since monitoring began. The bottom 20 feet of the landfill have been dry over this entire time period, whereas the upper 20 feet of the landfill have a slight moisture content. Minor quantities of methane are produced due to the moisture content of the upper part of the landfill.
9. The general shallow groundwater gradient is in a northwesterly direction with

Coyote Creek acting as a recharge source during the winter months. Coyote Creek is controlled by Anderson Reservoir several miles upstream of the landfill. A total of 21 monitoring wells had been installed previous to 1987, with an additional 2 wells installed at a later date to monitor within and the periphery of the landfill. Of the total number of 23 monitoring wells, 7 wells have been dry during much of the time monitoring has been performed, and 3 wells monitor the deep water bearing aquifer. At present, monitoring wells G-3, 8, 10, 11, 20, 22 and 23 monitor the shallow aquifer.

10. The major active earthquake faults in the region include the San Andreas, Hayward and Calaveras fault zones. The site is approximately eighteen miles east of the San Andreas fault zone, about four miles southwest of the Hayward fault zone and eight miles west of the Calaveras fault zone.

ANALYTIC RESULTS

11. Water samples from downgradient perimeter groundwater monitoring wells G-2 (presently dry) and G-10 have consistently indicated the presence of 1,1-dichloroethane (DCA) in low concentrations since 1986, which is believed to be the result of construction activity at the adjacent Capitol Expressway. During the second quarter of 1994 groundwater samples from well G-23 also showed low levels of 1,1-DCA (3.1 to 9.5 micrograms/L which is double California MCL's). Nitrate as N has exceeded the maximum contaminant level (10 mg/L) in monitoring well G-22 during the second quarter 1994 sampling round. No other contaminants exceeded their MCL's. The samples have been analyzed for arsenic, cadmium, chromium, lead and mercury since 1990. These contaminants have been detected intermittently in several wells at background concentrations. Mercury was detected in all wells in samples analyzed during the 2nd quarter of 1994 at very low concentrations, slightly above the detection limit of 0.0001 mg/L.
12. Methane extraction wells are located at regular intervals throughout the landfill, where residential housing abuts the site. Due to the low volumetric production of methane, these wells are flared only for about 12 hours each day.

BENEFICIAL USES OF COYOTE CREEK AND SOUTH SAN FRANCISCO BAY

13.
 - a. Wildlife habitat
 - b. Brackish and saltwater marshes
 - c. Water contact recreation
 - d. Non-water contact recreation
 - e. Preservation of rare and endangered species
 - f. Estuarine habitat
 - g.. Fish migration and spawning

The existing and potential beneficial use of the groundwater in the vicinity of the Singleton Road Landfill are as follows:

- a. Domestic and municipal water supply
- b. Industrial process supply
- c. Industrial service supply

CALIFORNIA ENVIRONMENTAL QUALITY ACT

14. Sanitary landfills could potentially impact groundwater if not properly designed, maintained and/or operated. Groundwater can also be affected by water that percolates through waste materials and extracts or dissolves contaminants from the waste and carries them into the groundwater. The site has been regulated pursuant to Board Orders since 1971. No evidence has been reported which would indicate that the facility has not adequately contained wastes disposed of there. Self monitoring reports have been quarterly submitted since April 1987.
15. The preceding impacts are mitigated or avoided by design measures to control erosion and assure containment of waste and leachate.
16. Federal Regulations [Code of Federal Regulations (CFR) Parts 122, 123, and 124] require specific categories of industrial activities, including landfills, to obtain an NPDES permit for storm water discharges. The State Water Resources Control Board has issued a General Permit for Storm Water Discharges Associated with Industrial Activities (NPDES Permit No. CAS000001). This facility is subject to these water discharges from two storm events during each wet season which produce significant storm water discharges as defined in State Water Resources Control Board Order No. 92-12-DWQ (General Permit for Storm Water Discharges). The Samples must be analyzed for:
 - pH, total suspended solids (TSS),, specific conductance, and total organic carbon (TOC).
 - Toxic chemicals and other pollutants that are likely to be present in storm water discharge in significant amounts.
17. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements and has provided them with an opportunity to submit their written views and recommendations.
18. The Board in a public meeting heard and considered all comments pertaining to

the site.

IT IS HEREBY ORDERED that the discharger, their agents, successors and assigns complete closure activities (modification of clay cap), conduct postclosure maintenance and monitoring pursuant to authority detailed in Title 23, Chapter 15, Section 2581 and the California Water Code Division 7 and observes the following:

A. PROHIBITIONS

1. Wastes shall not be in contact with ponded water.
2. Wastes of any origin and type shall not be deposited or stored at this site after adoption of the Order.
3. The discharger or any future owner or operator of this site, shall not cause the following conditions to exist in the waters of the State at any place outside the waste management facility:
4. The exterior surfaces (cap) shall be graded to a minimum slope which promotes runoff of precipitation, (Article 8, Section 2581(b)(1)). The discharger shall make quarterly visual inspections and report any failure of installed devices or ponding of surface water to the Board within 15 days of noting such failure or ponding.
5. A detailed survey of the landfill's cap must be made, to assure construction is in compliance with the requirements of Article 8 of Chapter 15.
6. The discharger shall maintain and monitor the waste unit to prevent a statistically significant increase to exist between water quality at the point of compliance as provided in Section 2550.5, Article 5 of Chapter 15.
7. In the event of a release of a constituent of concern beyond the Point of Compliance, the site will begin a Compliance Period pursuant to Section 2550.6(a). During the Compliance Period, the discharger shall perform an Evaluation Monitoring Program and a Corrective Action Program.
8. The discharger shall install any reasonable additional groundwater or leachate monitoring devices required to fulfill the terms of any Discharge Monitoring Program issued by the Executive Officer.
9. Methane and other landfill gases shall be adequately vented, removed from the landfill units, or otherwise controlled to minimize the danger of explosion, adverse health effects, nuisance conditions, or the impairment

of beneficial uses of water due to migration through the vadose zone in accordance with applicable regulatory requirements.

10. This Board considers the property owner and site operator to have continuing responsibility for correcting any problems which arise in the future as a result of this waste discharge or related operation or site use during the post closure maintenance period.
11. The discharger shall maintain all devices or designed features, installed in accordance with this Order such that they continue to operate as intended without interruption as provided for by the performance standards adopted by the California Integrated Waste Management Board.
12. The discharger shall maintain a minimum of two permanent survey monuments near the landfill from which the location and elevation of wastes, containment structures, and monitoring facilities can be determined throughout the post closure maintenance periods. These monuments shall be installed by a licensed land surveyor or registered civil engineer.
13. The Regional Board shall be notified immediately of any failure occurring in the waste management unit. Any failure which threatens the integrity of containment features or the landfill shall be promptly corrected after approval of the method and schedule by the Executive Officer.
14. The discharger shall comply with all applicable provisions of Chapter 15.

C PROVISIONS

1. The discharger shall comply with all Prohibitions, Specifications and Provisions of this Order, immediately upon adoption of this Order or as provided below.
2. The discharger shall submit a detailed **Post Earthquake Inspection and Corrective Action Plan** acceptable to the Executive Officer to be implemented in the event of any earthquake generating ground shaking of Richter Magnitude 7 or greater at or within 30 miles of the landfill. The report shall describe the containment features, groundwater monitoring and gas control facilities potentially impacted by the static and seismic deformations of the landfill. The plan shall provide for reporting results of the post earthquake inspection to the Board within 7 days of the occurrence of the earthquake. Immediately after an earthquake event causing damage to the landfill structures, the corrective action plan

shall be implemented and this Board shall be notified of any damage.

REPORT DUE DATE: WITHIN THREE MONTHS OF
ADOPTION OF THIS ORDER

3. The discharger shall submit a **Contingency Plan** to be instituted in the event of a leak or spill from the facility. The discharger shall give immediate notification to the San Francisco Bay Regional Water Quality Control Board, The Local Enforcement Agency (LEA), and the California Department of Toxic Substance Control. The discharger shall initiate its corrective action plan to stop and contain the migration of pollutants from the site.

REPORT DUE DATE: WITHIN THREE MONTHS OF
ADOPTION OF THIS ORDER

4. The discharger shall file with the Regional Board Discharge Monitoring Reports prepared under the supervision and signature of a registered civil engineer or registered geologist performed according to any **Discharge Monitoring Program** issued by the Executive Officer.

REPORT DUE DATE: NO LATER THAN APRIL 31 OF
EACH YEAR AFTER ADOPTION OF THIS
ORDER

5. The following shall be included in the closure and post-closure maintenance plan:
 - a. A description and quantification of water entering, leaving, and remaining on-site from all sources to determine potential adverse impacts due to proposed use, and corresponding mitigative design features that will insure the physical and hydraulic integrity of the final cover, (Article 8, Section 2597(11)(b)(1).
 - b. Detailed design plans and description(s) of the monitoring system(s) that will effectively detect penetration of the final cover by precipitation or applied irrigation waters (Article 8, Section 2597(11)(b)(2). The discharger will install an adequate number of strategically placed unsaturated zone monitoring system within the cap at depths capable of detecting irrigation water penetrating the cover.
 - c. The discharger shall install and maintain necessary structures to control surface erosion of the cap and slopes of the landfill in

accordance with the requirements of the Clean Water Act, including the National Pollutants Discharge Elimination System. He shall maintain good surface drainage, resisting soil erosion and minimize long term maintenance of the final cover system. The site must be periodically inspected for cracks and erosion of the cover which must be repaired and reseeded when necessary. Observations of erosion and necessary maintenance must be reported to the Regional Board within 30 days of such event.

- d. The discharger shall make quarterly visual inspections of the cap and report any failure or cracking, or failure of installed devices or ponding of surface water to the board within 15 days of noting such failure or ponding.
6. The discharger shall establish an irrevocable closure fund or other means to ensure closure and post closure maintenance pursuant to Section 2580(f) of Chapter 15 that will assure proper closure and post-closure monitoring and maintenance of the site. For purposes of planning the discharger shall assume a post closure period of at least 30 years. The discharger shall provide an evaluation of closure and post-closure monitoring and maintenance costs.

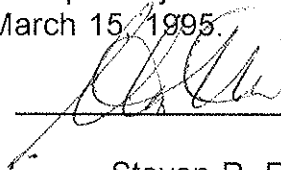
REPORT DUE: JUNE 30, 1995

7. The discharger shall comply with all applicable items of the attached Discharge Monitoring Program, or any amendments following thereafter.
8. In the event of any change in ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to this office. To assume operation of this Order, the succeeding owner or operator must apply in writing to the Executive Officer requesting transfer of the Order. (Refer to Standard Provisions referenced above). The request must contain the requesting entity's full legal name, the address and telephone number of the persons responsible for contract with the Board and a statement which shall comply with the signatory paragraph described in Standard Provisions. The new owner or operator must state that he assumes full responsibility for compliance with this Order. Failure to submit the request shall be considered a discharge without requirements, a violation of the California Water Code.
9. The discharger has performed quarterly self monitoring since 1992, showing no leakage from the landfill. This Order permits the discharger to initiate an annual self monitoring program to be performed

during February or March of each year, as detailed in attached Parts A & B.

10. This Board considers the property owner and site operator to have continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or related operations.
11. The discharger shall permit the Board or its authorized representative to:
 - a. Have immediate entry upon the premises on which the wastes are located or in which any required records are kept.
 - b. Access to copy any records required to be kept under the terms and conditions of this Order.
 - c. Inspection of any treatment equipment, monitoring equipment, or monitoring method required by this Order or by any other California State Agency.
 - d. Sampling of any discharge or groundwater governed by this Order.
12. These requirements do not authorize commission of any act causing injury to the property of another or the public; do not convey any property rights; do not remove liability under Federal, State or local laws; do not authorize the discharge of wastes without appropriate permits from other agencies or organizations.
13. This Order is subject to Board review and updating, as necessary, to comply with changing State or Federal laws, regulations, policies, or guidelines; changes in the Board's Basin Plan; or changes in the discharge characteristics.
14. Copies of all correspondence, reports and documents pertaining to compliance with the Prohibitions, Specifications and Provisions of this Order shall also be provided to the Environmental Health Services Division of Santa Clara County and the Integrated Waste Management Board.
15. The discharger shall analyze groundwater and surface water samples for the parameters as presented in the attached part B of the discharge monitoring program.

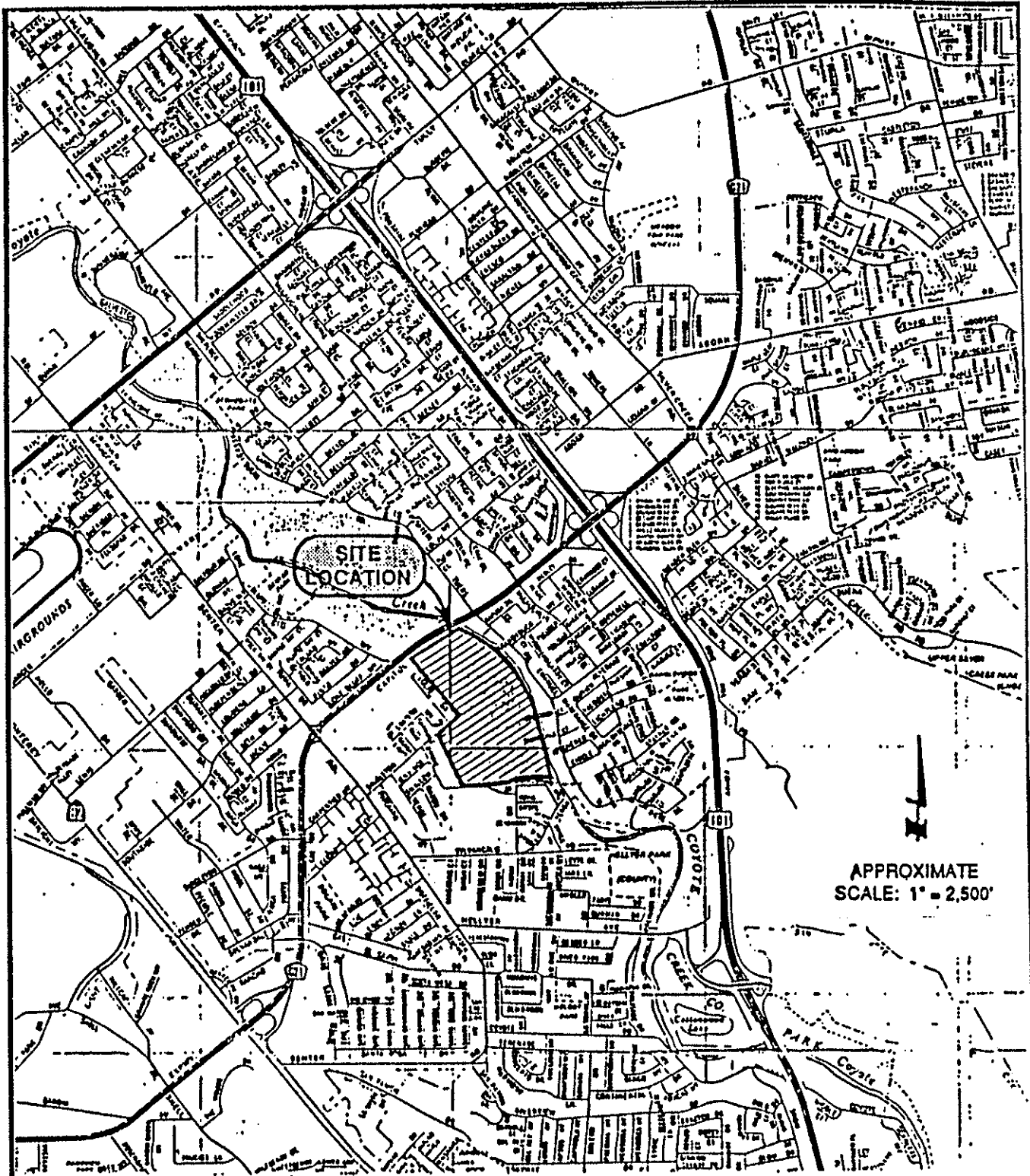
I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing is a full, complete and correct copy of an Order adopted by the Regional Water Quality Control Board, San Francisco Bay Region on March 15, 1995.

A handwritten signature in dark ink, appearing to read "S. Ritchie", is written over a horizontal line.

Steven R. Ritchie
Executive Officer

Attachments:

1. Site Location Map
2. Site Map
3. Discharge Monitoring Program



APPROXIMATE
SCALE: 1" = 2,500'

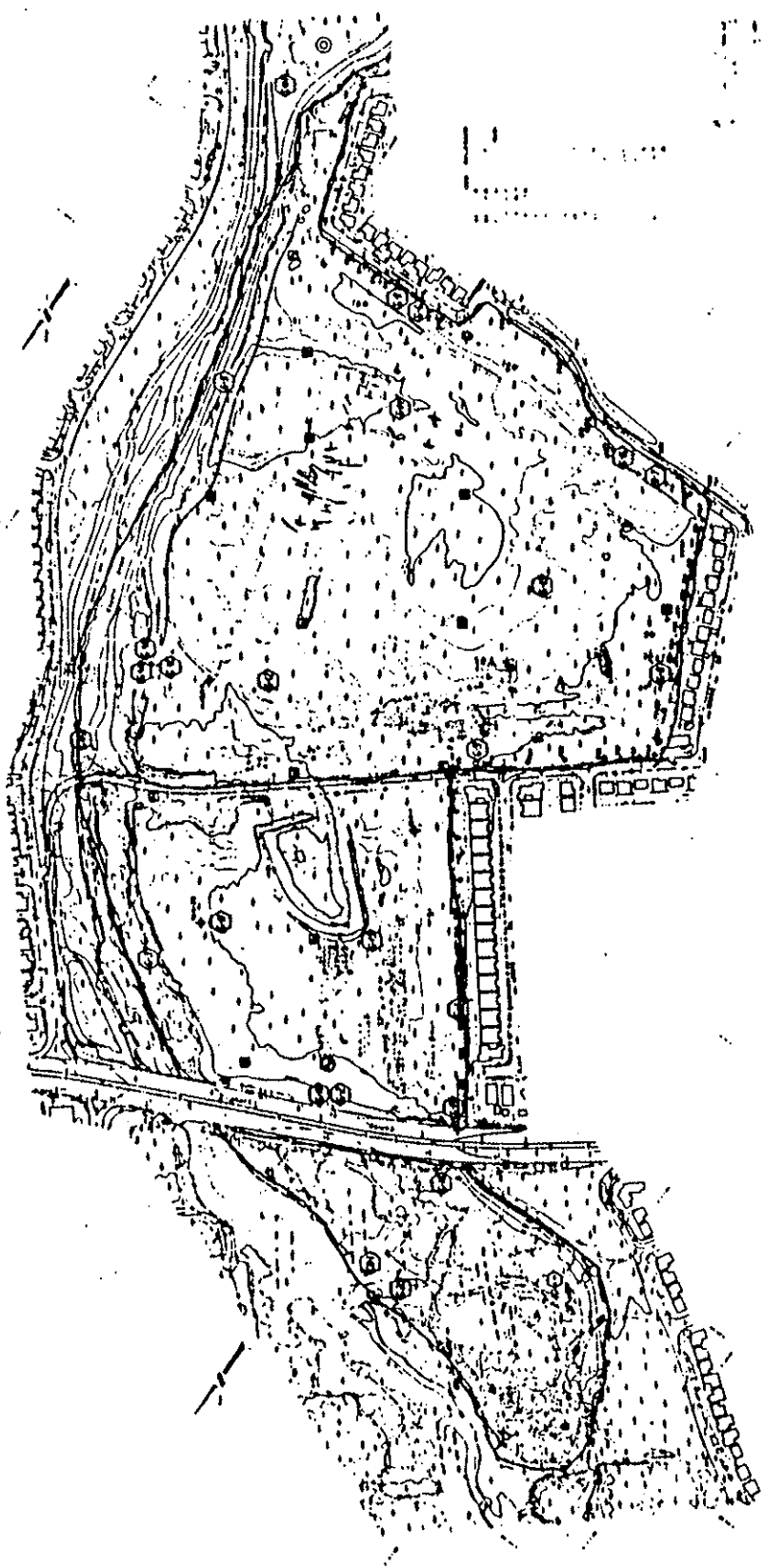
BASE FROM CSAAS
GREATER SAN JOSE
SOUTHERN AREA MAP

Wahler Associates

**CITY OF SAN JOSE
SINGLETON ROAD LANDFILL**
PALO ALTO • CALIFORNIA

SITE LOCATION MAP

PROJECT NO.	DATE	FIGURE NO.
88280.100	JULY 1994	1



EXPLANATION
 O MONITORING WELL



CITY OF SAN JOSE		FIGURE 2	
SINGLETON ROAD LANDFILL		PROJECT NO.	DATE
		100-1000	10/1/84
		100-1000	10/1/84

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

DISCHARGE MONITORING PROGRAM

FOR

CITY OF SAN JOSE
SINGLETON ROAD CLASS III SOLID WASTE DISPOSAL SITE
SAN JOSE, SANTA CLARA COUNTY

ORDER NO. 95-057

CONSISTS OF

PART A

AND

PART B

PART A

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13383 and 13387(b) of the California Water Code and this regional Board's Resolution No. 73-16. This Discharge Monitoring Program is issued in accordance with Provision C.4 of Regional Board Order No. 95-057.

The principal purposes of a discharge monitoring program are:

- (1) to document compliance with waste discharge requirements and prohibitions established by the board,
- (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge,
- (3) to develop or assist in the development of standards of performance and toxicity standards,
- (4) to assist the discharger in complying with the requirements of Article 5, Chapter 15 as revised July 1, 1991.

B. SAMPLING AND ANALYTIC METHODS

Sample collection, storage and analyses shall be performed according to the most recent version of EPA Standard Methods and in accordance with an approved sampling and analysis plan.

Water and waste analysis shall be performed by a laboratory approved for these analyses by the State of California. The director of the laboratory whose name appears on the certification shall supervise all analytic work in his/her laboratory and he/she or their authorized representative shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. Receiving waters refer to any surface water which actually or potentially receives surface or groundwater which pass over, through or under

waste materials or contaminated soils. Coyote Creek must be considered as the receiving water in this situation.

2. Standard observations refer to :

a. Receiving Waters

- 1) Floating and suspended materials of waste origin: presence or absence, source and size of affected area.
- 2) Discoloration and turbidity: description of color, source and size of affected area.
- 3) Evidence of odors, presence or absence, characterization, source and distance travelled from the source.
- 4) Evidence of beneficial use: presence of water associated wildlife.
- 5) Flow rate.
- 6) Weather conditions: wind direction and estimated velocity, total precipitation during previous five days and the day of observation.

b. Perimeter of the waste management unit

- 1) Evidence of liquid leaving or entering the waste management unit, estimated size of affected area and flow rate. (Show affected area on map).
- 2) Evidence of odors, characterization, source and distance of travel from source.
- 3) Evidence of erosion and/or daylighted refuse.

c. The waste management unit

- 1) Evidence of ponded water at any point on the waste management facility.
- 2) Evidence of odors, characterization, source and distance of travel from source.
- 3) Evidence of erosion and/or daylighted refuse.
- 4) Standard analysis (SA) and measurements.

D. SAMPLING, ANALYSES AND OBSERVATIONS

The discharger is required to perform sampling, analyses and observations in the following media:

1. Groundwater per Section 2550.7(c)
2. Surface water per Section 2550.7(c) and per the general requirements specified in Section 2550.7(e) of Article 5, Chapter 15.

E. RECORDS TO BE MAINTAINED

Written reports shall be maintained by the discharger or laboratory and shall be maintained for a minimum of 5 years. This period of retention shall be extended during the course of any unresolved litigation regarding a discharge or when so requested by the Board. Such records shall show the following for each sample:

1. Identity of sample and sample station number.
2. Date and time of sampling.
3. Date and time of analyses and name of person performing the analyses.
4. Complete procedure used, including method of sample preservation and the identity and volume of reagents used, where applicable; or reference to standard EPA methods.
5. Calculation of results.
6. Results of analyses and detection limits for each analysis

F. REPORTS TO BE FILED WITH THE BOARD

1. Written detection monitoring reports shall be filed within 30 days following the reporting period. The reports shall be comprised of the following:

- a. Letter of Transmittal

A letter transmitting the essential points in each report should accompany each report. Such a letter shall include a discussion of any requirement violations found during the reporting period and actions taken or planned for correcting such violations. If the discharger has previously submitted a detailed time schedule for correcting violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred during the last reporting period, this shall be stated in the letter of transmittal. Monitoring reports and the letter of transmittal shall be signed by the principal; executive officer at the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signers knowledge, the report is true, complete and correct.

- b. Each monitoring report shall include a compliance evaluation summary. The summary shall contain:

- 1) A graphic description of water flow under/around the waste management unit, based upon the past and present water level elevations and pertinent visual observations. A statistical evaluation of the water quality monitoring data for all groundwater compliance points (as required under part B).

- 2) The method and time of water level measurement, type of pump used and placement in the well; method of purging, pumping rate, equipment and methods used to monitor field pH, temperature and conductivity and turbidity testing, well recovery time and method of disposing of purge water.
 - 3) A detailed description of the sampling procedure; number and description of equipment, field and travel blanks; number and description of duplicate samples; type of sample containers and preservatives used, the date and time of sampling and date of analyses together with permissible holding times and the name and qualifications of the person actually taking the samples and any other observations.
- c. A map or aerial photograph shall accompany each report showing observation and monitoring locations.
 - d. Laboratory statements of results of analyses specified in Part B must be included in each report. The director of the laboratory whose name appears on the laboratory certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Board.
 1. The methods of analyses and detection limits must be appropriate for the expected concentrations. Specific methods of analyses must be identified. If methods other than EPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and approval by the Executive Officer prior to acceptance.
 2. In addition to the results of the analyses, laboratory quality assurance/quality control (QA/QC) information must be included in the monitoring report. The laboratory QA/QC information should include the method, equipment and analytic detection limits; the recovery rates; and any explanation for any recovery rate outside of the normal range specified by the EPA for that method; the results of spiked and surrogate samples; the frequency of quality control analysis; and the name of the person(s) performing the analyses.
 - e. A summary and certification of completion of all standard observations for the waste management unit and the receiving waters.

2. CONTINGENCY REPORTING

- a. A report shall be made by telephone of any seepage from the disposal area immediately after it is discovered. A written report shall be filed with the Board within five days thereafter. This report shall contain the following information:

- 1) a map showing the location(s) of the discharge;
 - 2) approximate flow rate;
 - 3) nature of effects; i.e. all pertinent observations and analyses; and
 - 4) corrective measures under way or proposed.
- b. A report shall be made in writing to the Board within seven days of determining that a statistically significant increase occurred at a point of compliance (between a downgradient sample and a WQPS). Notification shall indicate what WQPS(s) has/have been exceeded. The discharger shall immediately re-sample at the compliance point where this difference has been found and resample and reanalyze.
 - c. If resampling and re-analysis confirms the earlier finding of a statistically significant increase between monitoring results and WQPS(s), the discharger must submit to the Board an amended Report of Waste Discharge as specified in Section 2550.8(k)(5) for establishment of an Evaluation Monitoring Program (EMP) meeting the requirements of Section 2550.9 of Chapter 15.
 - d. Within 180 days of determining statistically significant evidence of a release, submit to the Regional Board an engineering feasibility study for a Corrective Action Program (CAP) necessary to meet the requirements of Section 2550.10. At a minimum, the feasibility study shall contain a detailed description of the corrective action measures that could be taken to achieve background concentrations for all constituents of concern.

3. REPORTING

By April 31 of each year, the discharger shall submit an annual report to the Board, covering the previous calendar year. The report shall contain:

- a. Tabular and graphical summaries of the monitoring data obtained during the previous year.
- b. A comprehensive discussion of the compliance record, and corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements.
- c. A map showing the area, if any, in which filling has been completed during the previous calendar year.
- d. A written summary of the groundwater analyses indicating any change in the quality of the groundwater.

4. WELL LOGS

A boring log and a monitoring well construction log shall be submitted for each new sampling well established for this monitoring program, as well as a report of inspection or certification that each well has been constructed in accordance with the construction standards of the Department of Water Resources. These shall be submitted within 30 days after well installation.

PART B

1. DESCRIPTION OF OBSERVATION STATIONS AND SCHEDULE OF OBSERVATIONS

A. ON-SITE OBSERVATIONS - Report Annually

STATION	DESCRIPTION	OBSERVATIONS	FREQUENCY
P - 1 thru P - 'n'	Located peripherally to the waste management unit.	Standard observations for the waste management unit.	Monthly

A map showing compliance points shall be submitted by the discharger in the annual monitoring report.

B. GROUNDWATER, LEACHATE AND SURFACE WATER MONITORING

Report annually

Groundwater, surface water and seepage monitoring points shall be monitored as outlined below.

1) SURFACE WATER

C - U - 1 and C - U - 2

2) SHALLOW GROUNDWATER WELLS

G -3, G - 5, G -8, G -10, G - 11, G - 20, G - 22, G - 23.

3) DEEP GROUNDWATER WELLS

G - 16, G - 4C and G - 19

4) ANALYTIC PARAMETERS

As per attached table

C. FACILITIES MONITORING

The discharger shall collect all surface and groundwater samples during the period February - March during the rainy season or shortly thereafter. He shall inspect all facilities to ensure proper and safe operation once per quarter and report any incidents not in compliance with this Order.

D. STORM WATER MONITORING

Report Semi-annually

Storm water monitoring shall be as outlined as shown on the attached table. During the wet season (October through April), estimate or calculate the volume of storm water discharge from each outfall and collect and analyze samples of storm water.

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in this Board's Order No. 95-057,
2. Is effective on the date shown below;
3. may be reviewed or modified at any time subsequent to the effective date, upon written notice from the Executive Officer.



Steven R. Ritchie
Executive Officer

Date Ordered: 3/15/95

Attachment:

Table of Analytic Parameters

PARAMETERS	METHOD, USEPA	FREQUENCY-Location
Temperature	Centigrade	Field
Water Level	Mean Sea Level	Field
Electrical Conductivity	120.1	Field
pH	150.1	Field
Turbidity	180.1	Field
Total Dissolved Solids	160.1	Annually
Chloride	325.2	Annually
Nitrate	353.2	Annually
Nitrogen, Kjeldahl	351.2	Annually
Total Organic Carbon	415.1	Annually
Arsenic	206.3	Annually
Cadmium	213.1	Annually
Chromium	218.1	Annually
Lead	239.1	Annually
Mercury	245.1	Annually
Volatile Organic Compounds	8010	Annually